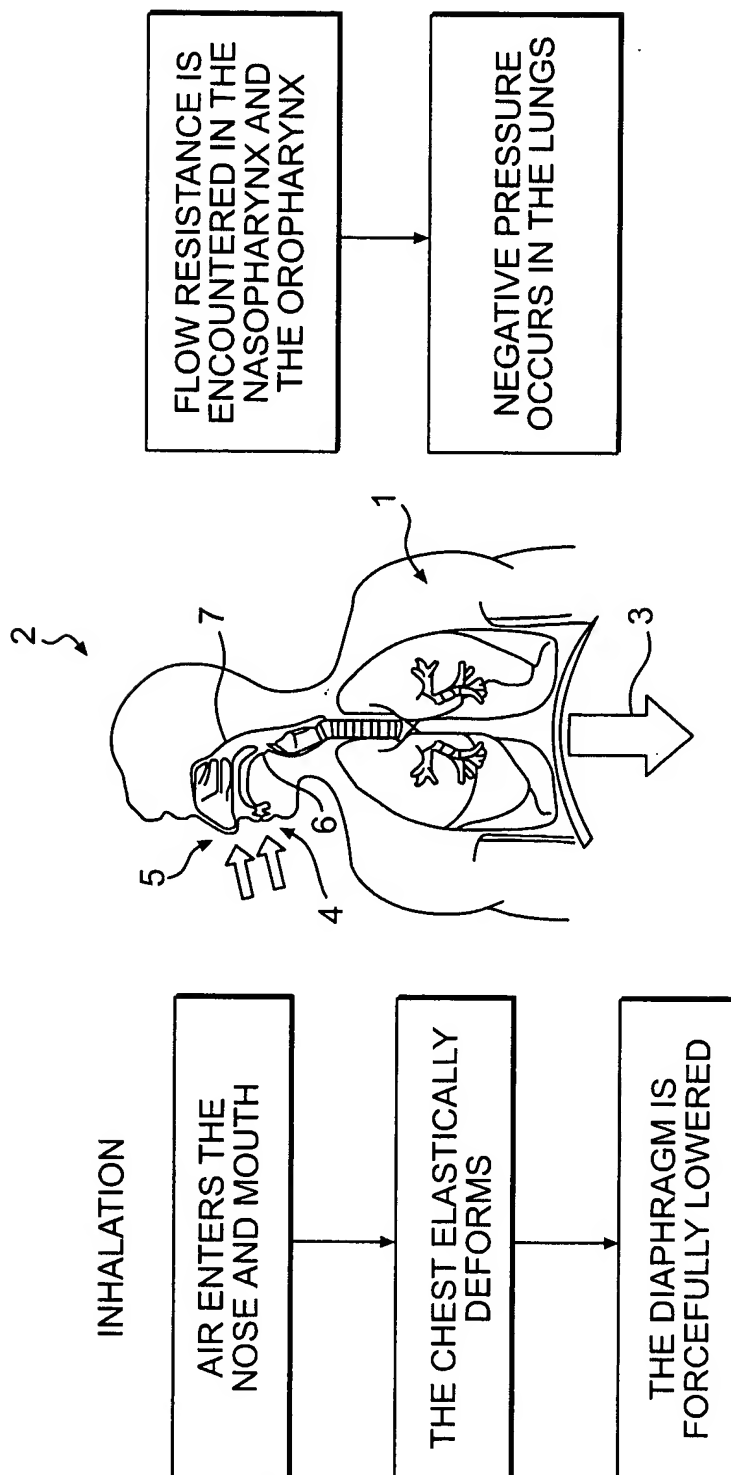


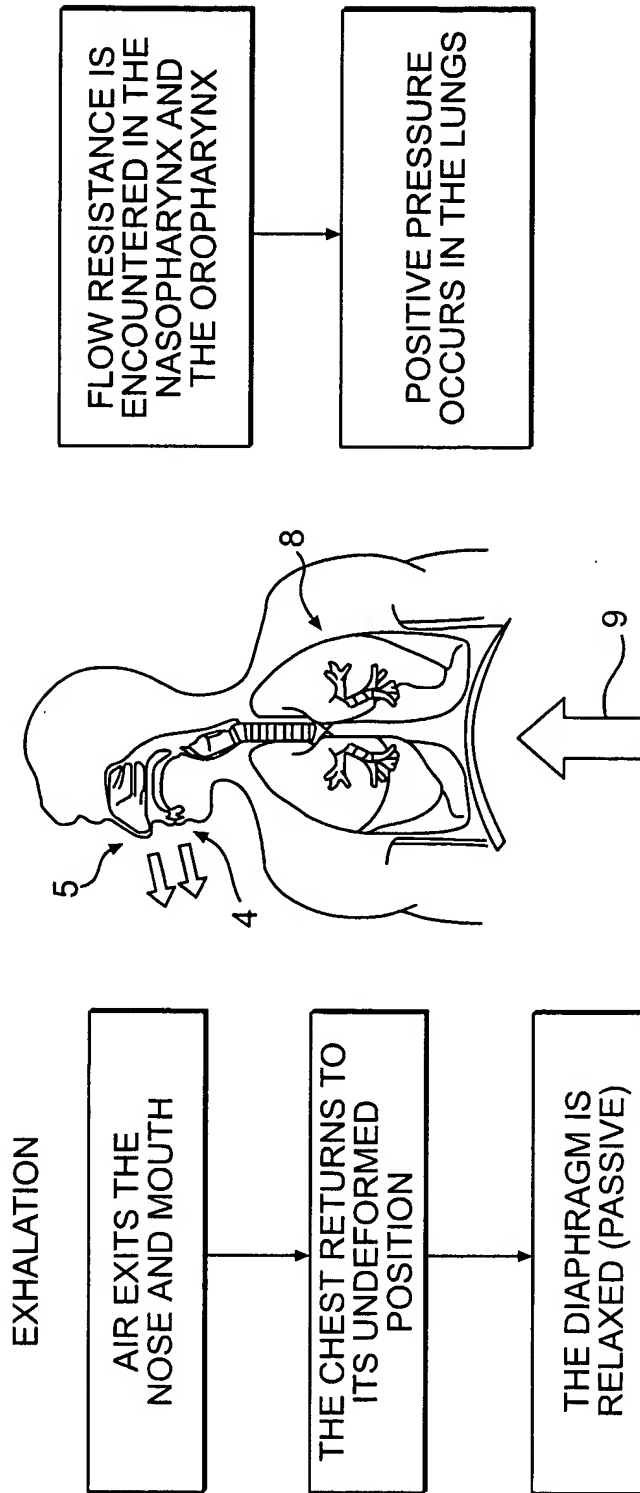


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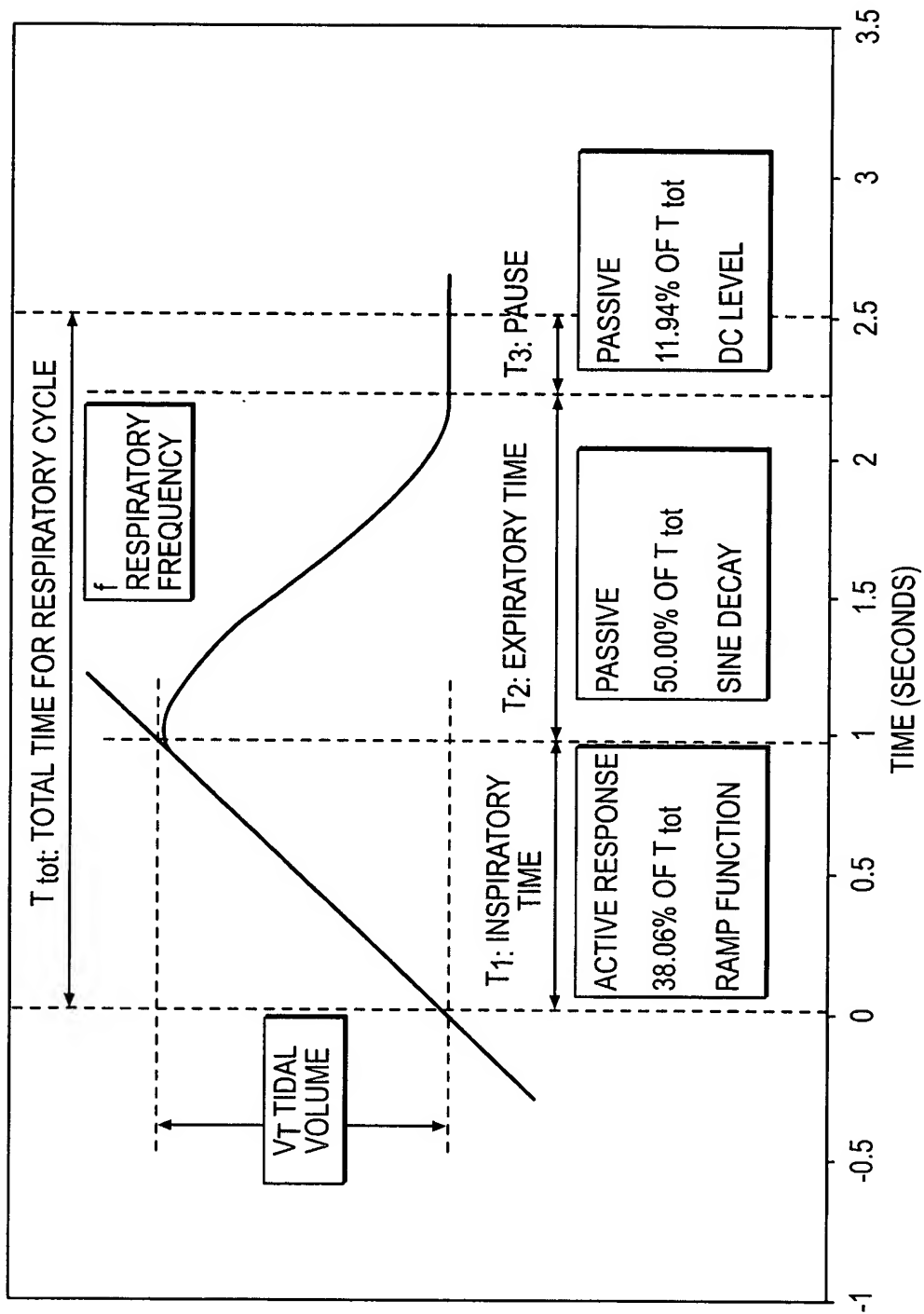
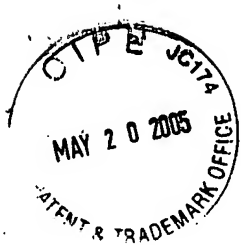


FIG. 3



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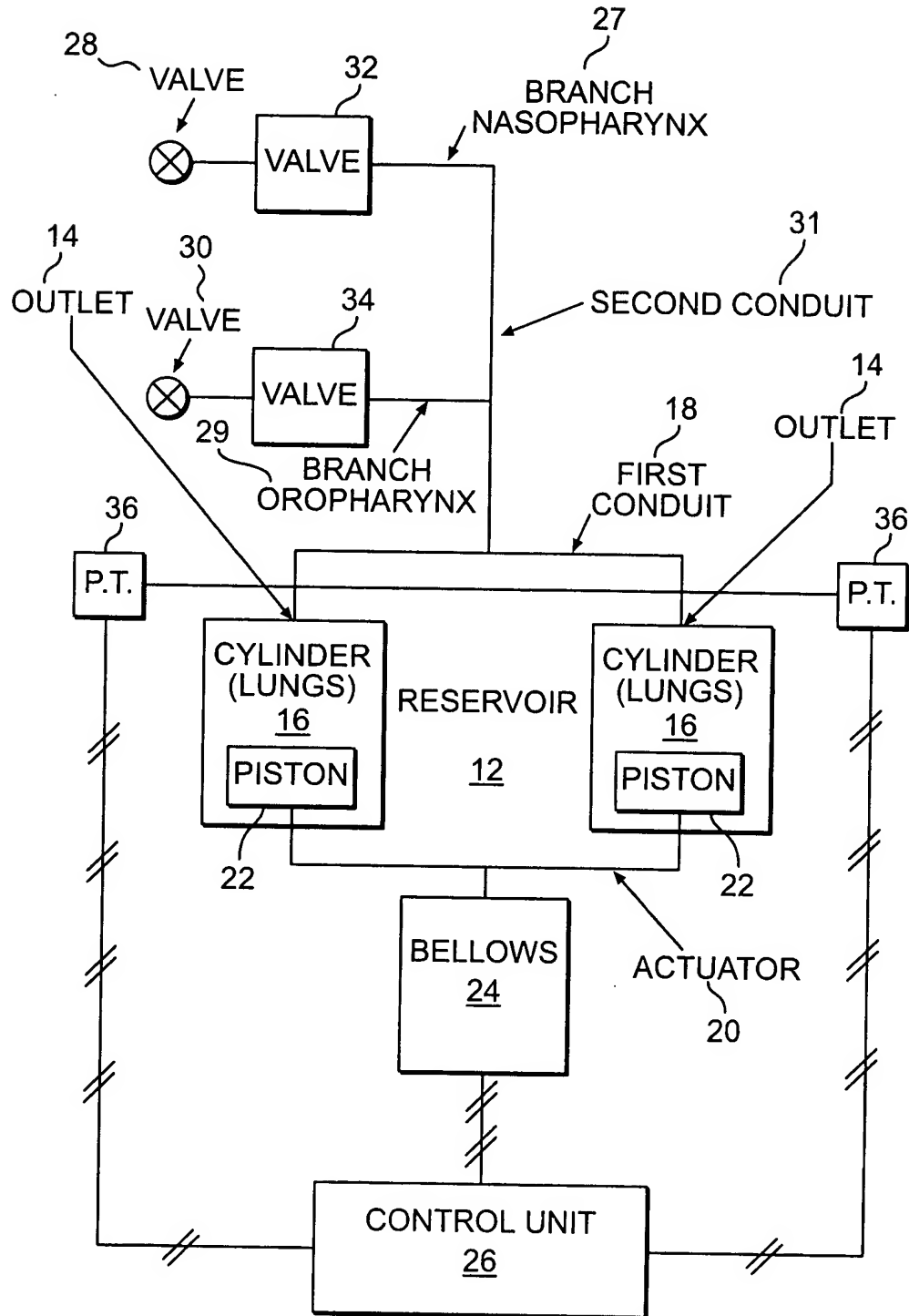


FIG. 4

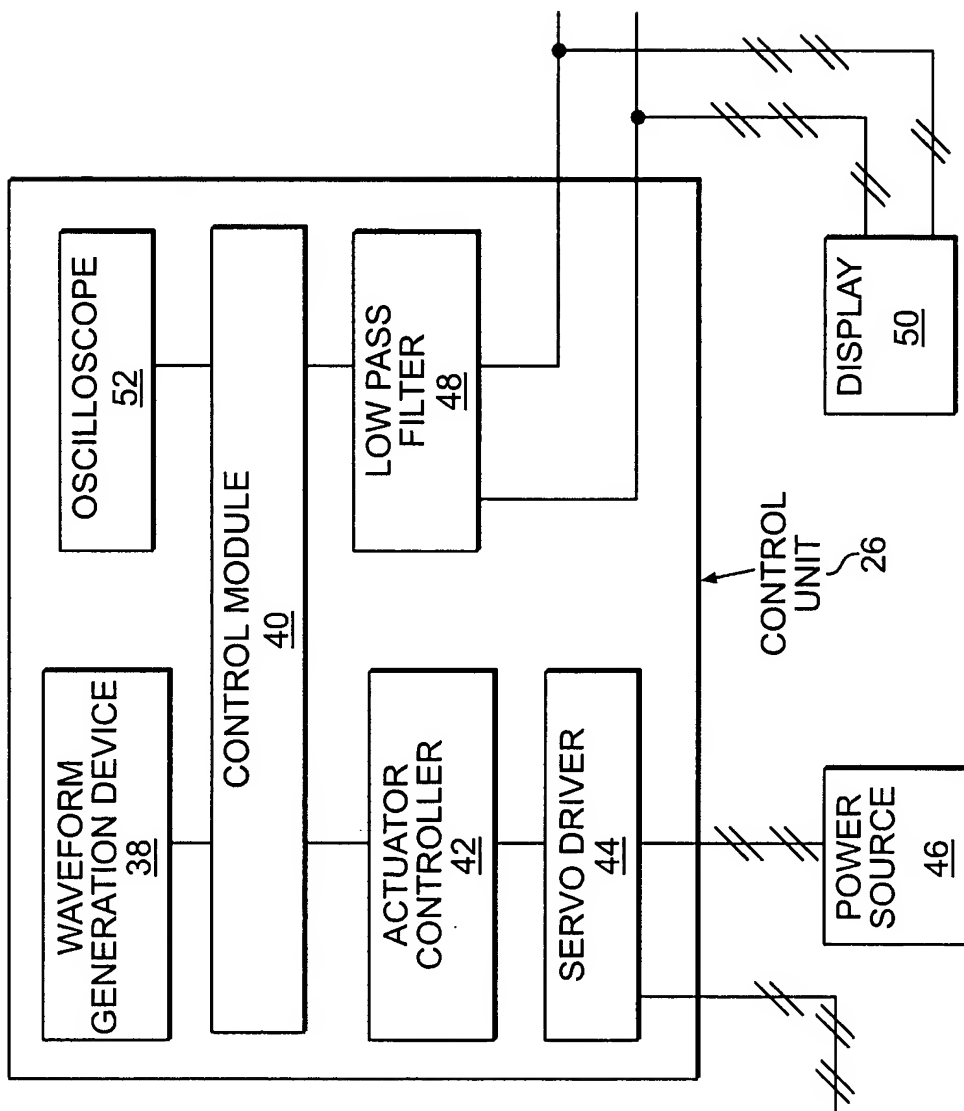


FIG. 5

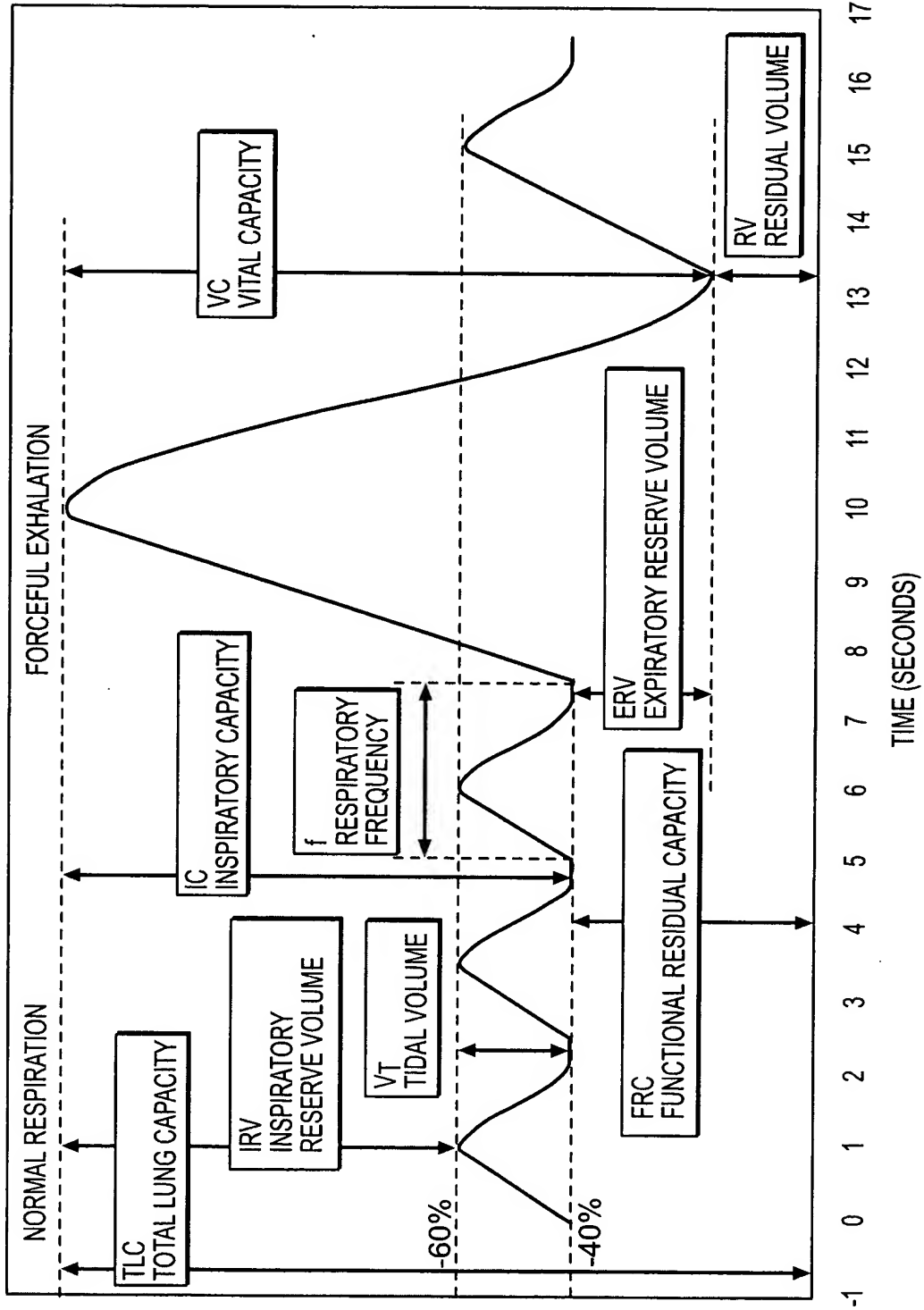


FIG. 6



	AGE YEARS											
	1	2	3	4	5	6	7	8	9	10	11	12
LUNG CAPACITY												
TOTAL LUNG CAPACITY	633	923	1213	1340	1467	1802	2138	2473	2798	3123	3448	3773
VITAL CAPACITY	475	693	910	1005	1100	1352	1603	1855	2099	2343	2586	2830
RESIDUAL VOLUME	158	231	303	335	367	451	534	618	700	781	862	943
TLC=VC + RV												
RV=0.25 * TLC												
NORMAL RESPIRATION												
FUNCTIONAL RESIDUAL CAPACITY	263	398	532	596	660	831	1003	1174	1344	1515	1685	1855
TIDAL VOLUME	78	95	112	121	130	147	163	180	200	220	240	260
INSPIRATORY CAPACITY	370	526	681	744	807	971	1135	1299	1454	1609	1764	1918
INSPIRATORY RESERVE VOLUME	292	431	569	623	677	824	972	1119	1254	1389	1524	1658
FREQUENCY (CYCLES/MINUTE)	f	24	23	22	21	20	19	18	17	16	15	14
TLC=FRC + IC												
TLC=FRC + VT+IRV												
IC=VT + IRV												
FRC=0.50 * TLC (UPRIGHT)												
FRC=0.40 * TLC (SUPINE)												
FORCEFUL EXHALATION												
EXPIRATORY RESERVE VOLUME	105	167	229	261	293	381	468	556	645	734	823	912
FREQUENCY (CYCLES/MINUTE)	f											
TLC=IC + ERV + RV												
VC=ERV + IC												
CALIBRATION/MODEL LUNGS AND LINEAR ACTUATOR												
BASELINE (0.00-INCHES, 0.0 VOLTS)	0.00	0.00	0.00	80	160	1990						
FULLY EXTENDED (6.00-INCHES, 5.0 VOLTS)	6.00	5.00	5.00	995	1990							
V/ml				0.0055	0.0027							
ml/V				183	366							

NOTE: VOLUME= THE VOLUME OF 1 LUNG,
 TOT VOL=THE VOLUME OF BOTH LUNGS

FIG. 7

CONTINUED ON FIG. 7 CONT.

FIG. 7 CONT.

NORMAL RESPIRATION CYCLE													
TOTAL TIME (1 RESPIRATION CYCLE)													
INSPIRATORY TIME (T1), RAMP, 38.06%													
EXPIRATORY TIME (TE-T3), SINE DECAY, 50%													
PAUSE (TE-T2), DC LEVEL, 11.94%													
PROGRAM SETTINGS:													
RAMP													
START													
END													
SINE													
AMPLITUDE													
OFFSET													
FREQ (Hz)													
PHASE													
DC LEVEL													
OFFSET													

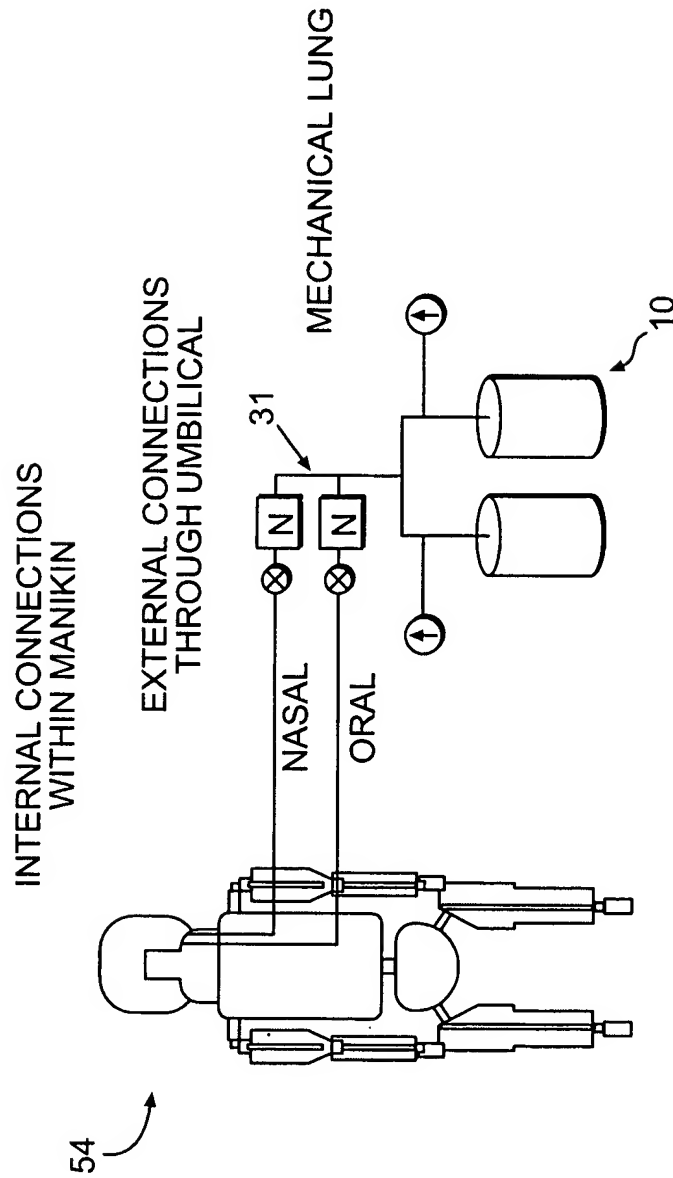


FIG. 8